Amendments to the Claims

1   Claim 1 (currently amended): A method of programmatically computing street intersections using

2   street geometry, comprising steps of:

3   obtaining street geometry information for a first street:

4   comparing the obtained street geometry information for the first street to obtained street

5   geometry information for one or more other streets to determine intersecting ones of the one or

6   more other streets[[; and]], further comprising steps of:

7   comparing a bounding box corresponding to a geometric line representation of the

8   first street to the bounding box corresponding to the geometric line representation of a selected

9   one of the one or more other streets; and

10   if the step of comparing the bounding boxes determines a potential intersection,

11   comparing the geometric line representation of the first street to the geometric line representation

12   of the selected one of the other streets;

13   for each of the intersecting ones, storing a geographic location of a point of [[the]]

14   intersection, along with an identification of the first street address and the identification of the

15   intersecting one.

1   Claim 2 (original): The method according to Claim 1, wherein the obtained street geometry

2   information originates from textual address information.

1   Claim 3 (currently amended): The method according to Claim 1, wherein the geographic location

2   comprises latitude and longitude values of the ~~obtained~~ intersection point.

1   Claim 4 (previously presented): The method according to Claim 1, wherein the storing step

2   stores geographic locations as geometric data.

1   Claim 5 (currently amended): The method according to Claim 1, wherein the storing step further

2   comprises the step of storing a reciprocal comprising the geographic location of [[a]] the point of

3   [[the]] intersection, along with the identification of the intersecting one and the identification of

4   the first street ~~address~~.

1   Claim 6 (original): The method according to Claim 1, wherein the obtained street geometry

2   information is retrieved from a database table.

1   Claim 7 (original): The method according to Claim 1, wherein the obtained street geometry

2   information is dynamically computed from textual address information.

Claims 8 - 9 (canceled)

1   Claim 10 (original): The method according to Claim 1, further comprising the step of repeating

2   the obtaining, comparing, and storing steps for at least one of the one or more other streets.

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1   Claim 11 (original): The method according to Claim 1, wherein the storing step further comprises

2   the step of creating or updating a row in a relational database table.

1   Claim 12 (currently amended): A system for programmatically computing street intersections

2   using street geometry, comprising:

3   means for obtaining street geometry information for a first street;

4   means for comparing the obtained street geometry information for the first street to

5   obtained street geometry information for one or more other streets to determine intersecting ones

6   of the one or more other streets[[; and]], further comprising:

7   means for comparing a bounding box corresponding to a geometric line

8   representation of the first street to the bounding box corresponding to the geometric line

9   representation of a selected one of the one or more other streets; and

10   means for comparing the geometric line representation of the first street to the

11   geometric line representation of the selected one of the other streets if the means for comparing

12   the bounding boxes determines a potential intersection;

13   for each of the intersecting ones, means for storing (1) a geographic location of a point of

14   [[the]] intersection, along with an identification of the first street-address and the identification of

15   the intersecting one, in a relational database table; and (2) a reciprocal comprising the geographic

16   location of [[a]] the point of [[the]] intersection, along with the identification of the intersecting

17   one and the identification of the first street-address.

1   Claim 13 (currently amended): The system according to Claim 12, wherein the geographic

2   location comprises latitude and longitude values of the obtained intersection point.

Claim 14 - 15 (canceled)

1   Claim 16 (currently amended): A computer program product for programmatically computing

2   street intersections using street geometry, the computer program product embodied on one or

3   more computer-readable media and comprising:

4   computer-readable program code means for obtaining street geometry information for a

5   first street;

6   computer-readable program code means for comparing the obtained street geometry

7   information for the first street to obtained street geometry information for one or more other

8   streets to determine intersecting ones of the one or more other streets[[; and]], further

9   comprising:

10   computer-readable program code means for comparing a bounding box

11   corresponding to a geometric line representation of the first street to the bounding box

12   corresponding to the geometric line representation of a selected one of the one or more other

13   streets; and

14   computer-readable program code means for comparing the geometric line

15   representation of the first street to the geometric line representation of the selected one of the

16   other streets if the computer-readable program code means for comparing the bounding boxes

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17   determines a potential intersection:

18   for each of the intersecting ones, computer-readable program code means for storing (1) a

19   geographic location of a point of [[the]] intersection, along with an identification of the first street

20   address-and the identification of the intersecting one, in a relational database table; and (2) a

21   reciprocal comprising the geographic location of [[a]] the point of [[the]] intersection, along with

22   the identification of the intersecting one and the identification of the first street-address; and

23   computer-readable program code means for repeating operation of the computer-readable

24   program code means for obtaining, computer-readable program code means for comparing, and

25   computer-readable program code means for storing, for at least one of the one or more other

26   streets.

Claim 17 (canceled)

1   Claim 18 (new):   A method of programmatically computing street intersections using street

2   geometry, comprising steps of:

3   comparing a bounding box corresponding to a geometric line representation of a first

4   street to the bounding box corresponding to the geometric line representation of at least one

5   selected one of one or more other streets; and

6   for each bounding box comparison that determines a potential intersection, comparing the

7   geometric line representation of the first street to the geometric line representation of the selected

8   street to determine whether the first street and the selected street intersect.

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1   Claim 19 (new): The method according to Claim 18, wherein the step of comparing the

2   geometric line representations further comprises the step of determining a point of intersection

3   between the first street and the selected street when it is determined that the first street and the

4   selected street intersect.

1   Claim 20 (new): A method of programmatically computing street intersections using street

2   geometry, comprising steps of:

3   comparing a bounding box corresponding to a geometric line representation of a first

4   street to the bounding box corresponding to the geometric line representation of each of one or

5   more other streets;

6   for each bounding box comparison that determines a potential intersection, comparing the

7   geometric line representation of the first street to the geometric line representation of the other

8   street; and

9   for each geometric line representation comparison that determines an actual intersection,

10   determining a geographic location of a point of the actual intersection.

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